

CLAIM AMENDMENTS

1 1. (currently amended) An apparatus Apparatus with
2 directable blades for conveying displacing air to a radiator
3 radiators of a motor vehicle s and the like, comprising:

4 a fan [[(10)]] having a plurality of blades [[(12)]] each
5 radially mounted by means of its own a respective coupling device
6 [[(31)]] on a central body [[(11)]] and able to be rotationally
7 actuated about [[its]] a respective longitudinal axis of the blade
8 by means of actuating means (41,42,43) depending on [[the]] a
9 quantity of air required for correct cooling of the fluid in said
10 radiator; and [[,]]

11 Characterized in that it comprises means
12 {E0,160,260,360,460 an electromagnetic clutch for engaging/
13 disengaging [[the]] transmission of the rotational movement from
14 the means (23,21,321a,21,421a,21) a source of rotational movement
15 generating said movement to [[the]] said fan [[(10)]].

2. (canceled)

3. (canceled)

1 4. (Currently amended) The apparatus Apparatus according
2 to claim 1 wherein Claim 2, characterized in that said electromagnetic

3 clutch consists of a fixed electromagnet {61,361,461}, a rotor
4 {21,321,421} integral with the source of the devices (23,321a)
5 generating the rctational movement of the fan (10), and an armature
6 {62,362} integral with an element [(51)] supporting the fan [(10)]
7 and movable axially with respect to said support [(51)].

1 5. (Currently amended) The apparatus Apparatus according
2 to claim 2, characterized in that 1 wherein that said
3 electromagnetic clutch {61,361,461} is normally energized.

1 6. (currently amended) The apparatus Apparatus according to
2 claim 4, further comprising 2, characterized in that resilient means
3 {164,364} able to exert a pushing farce in an axial direction against
4 the armature {62,362} in order to keep it constantly coupled to the
5 rctor {21,321} are associated with said electromagnetic clutch {61,
6 361} .

1 7. (currently amended) The apparatus Apparatus according to
2 claim 4 wherein Claim 2, characterized in that said electromagnetic
3 clutch has {361,461} is associated with permanent magnets {66,466}
4 able to keep the armature {362,462} constantly coupled to the rotor
5 {321,421} .

1 8. (Currently amended) The apparatus Apparatus according to
2 claim 4 wherein 6 or 7, characterized in that said electromagnetic
3 clutch {361,461} is normally not energized.

1 9. (Currently amended) The apparatus Apparatus according to
2 claim 4 wherein said element supporting said fan is a Claim 1,
3 characterized in that said support (51) of the fan (10) is mounted on
4 a support shaft {21a,321a,421a} with the arrangement of associated
5 bearings [(52)] in between.

1 10. (Currently amended) The apparatus Apparatus according to
2 [[Claim]] claim 9 wherein [[,]]characterized in that said support
3 shaft {21a,321a,421a} is fixed.

1 11. (Currently amended) The apparatus Apparatus according to
2 [[Claim]] claim 9, characterized in that said support shaft
3 {21a,321a,421a}is movable rotationally.

1 12. (Currently amended) The apparatus Apparatus according to
2 [[Claim]] claim 10 , characterized in that wherein the rotor receives
3 the rotational movement from suitable external transmission means
4 [(23)].

1 13. (Currently amended) The apparatus Apparatus according to
2 [[Claim]] claim 11, characterized in that wherein the rotor receives
3 movement from the support shaft with which it is integral.

1 14. (Currently amended) The apparatus Apparatus according to
2 [[Claim]] claim 11 wherein, characterized in that the armature
3 [[(462)]] is integral with the movement transmission shaft (421a) and
4 the rotor [[(421)]] is integral with the fan [[(10)]].

15. (canceled)

1 16. (Currently amended) The apparatus Apparatus according to
2 [[Claim]] claim 1, characterized in that wherein the fan [[(10)]] is
3 arranged after the engaging/disengaging means.

1 17. (Currently amended) The apparatus Apparatus according to
2 [[Claim]] claim 1, characterized in that wherein the fan [[(10)]] is
3 arranged ahead of the engaging/disengaging means.

1 18. (new) An apparatus for displacing air to a radiator of a
2 motor vehicle, comprising:

3 a fan having a plurality of blades each radially mounted on a
4 respective longitudinal axis by a respective coupling device on a
5 central body;

6 an actuator acting upon said coupling devices for rotating said
7 blades about the respective longitudinal axes depending upon the
8 quantity of air required for cooling in said radiator;

9 a rotor driven by an engine of the motor vehicle;
10 an element supporting said fan and rotatable about an axis of rotation
11 of said rotor; and

12 a gripper device able to close around an armature rotationally
13 integral with said element for engaging/disengaging transmission of
14 rotational movement from said rotor to said element and said fan.

1 19. (new) The apparatus defined in claim 18 wherein said
2 armature projects radially from said element and said gripper device
3 has two jaws juxtaposed with opposite sides of said armature, one of
4 said jaws being fixed to said rotor, the other of said jaws being
5 mounted for translation in an axial direction on said element toward
6 and away from said armature by actuation of corresponding actuation
7 means.